## Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) An X-ray microscope which includes a device for generating X-rays, which device is provided with:
  - means for producing a fluid jet having a curvilinear cross-section,
  - means for forming a focused radiation beam whose focus is situated on the fluid jet,

said focused radiation beam comprising a beam of electrically charged particles.

15

10

- 2. (Previously presented) An X-ray microscope as claimed in Claim 1, wherein the beam of electrically charged particles comprises an electron beam.
- 3. (Previously presented) An X-ray microscope as claimed in Claim 1, wherein the cross-section of the fluid jet in the direction of the focused beam is smaller than that in the direction transversely thereof.
- 25 4. (Previously presented) An X-ray microscope as claimed in Claim 1, wherein the fluid jet consists essentially of liquid oxygen or nitrogen.
- 5. (Previously presented) An X-ray microscope as claimed in Claim 1, wherein the means for producing a focused beam of electrically charged particles comprises an electron gun for

Appl. No. 10/179,314

Amendment/Response

Reply to non-Final Office action of 10 June 2003

a cathode ray tube, the X-ray microscope including a condenser lens disposed between the fluid jet and an object to be imaged by means of the X-ray microscope.

6. (Currently amended) An electron microscope for producing a focused electron beam and including a device for generating X-rays,

said device including:

- means for producing a fluid jet having a curvilinear cross-section,
- means for directing the focus of the electron beam onto the fluid jet.
- 7. (Previously presented) An electron microscope as claimed in Claim 6 and including an X-ray microscope, said device for generating X-rays acting as the X-ray source for the X-ray microscope.
- 8. (Previously presented) An electron microscope as claimed20 in Claim 6, the electron microscope being a scanning electron microscope.

C:\PROFESSIONAL\PhilipsAMDS2005\PHQ99015final.doc

10